

# Testing Opcua on Spidr4 control board

- First test was creating an Opcua server with Quasar that runs on a PC
  - interfaces with controlboard\_app running on the spidr4 control board via gRPC
- Next: using the controlboard\_app source base and embed the OpcUA service
  - excluded gRPC but should be possible to have both protocols available simultaneous
  - Quasar not usable within Petalinux build system
  - I used open62541 open-source library ([www.open62541.org](http://www.open62541.org))
    - Also used by Quasar as backend. Small footprint, plain “C”
  - Currently implemented: board registers and sensors. “High level” fan control.
- In theory both gRPC and Opcua can work side-by side
- Maybe Opcua can replace gRPC in the future?
- Small demo?